# **Appendix A**

Summary of Data Collection and Report Methodology

# Appendix A

# Summary of Data Collection Operations and Report Methodology

The 1999 data for the Natural Gas Annual are taken primarily from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" and Form EIA-895, "Monthly Quantity and Value of Natural Gas Report." Each of these surveys and all other sources of data for this report are discussed separately in the following sections.

# Form EIA-176

# Survey Design

The original version of Form EIA-176 was approved in 1980 with a mandatory response requirement. Prior to 1980, published data were based on voluntary responses to Bureau of Mines, U.S. Department of the Interior predecessor Forms BOM-6-1340-A and BOM-6-1341-A of the same title.

In 1982, the scope of the revised EIA-176 survey was expanded to collect the number of electric utility consumers in each State, volumes of gas transported to industrial and electric utility consumers, detailed information on volumes transported across State borders by the respondent for others and for the responding company, and detailed information on other disposition. These changes were incorporated to provide more complete survey information with a minimal change in respondent burden. The 1982 revision of the Form EIA-176 continues to be the basis for the current version of this form.

In 1988, the Form EIA-176 was revised to include data collection for deliveries of natural gas to commercial consumers for the account of others. The revised form was approved for use during report years 1987 through 1989. A short version of Form EIA-176 was also approved in 1988. Companies engaged in purchase and delivery activities but not in transportation and storage activities filed the short form. Usually, these companies were municipals handling small volumes of gas.

In 1990, the Form EIA-176 was revised to include more detailed information for gas withdrawn from storage facilities, gas added to storage facilities, deliveries of company-owned natural gas and natural gas transported for the account of others. The revised form was approved for use beginning with report year 1990.

Upon the Office of Management and Budget's (OMB) approval in 1993, the Form EIA-176 was revised. All deliveries to consumers were categorized as firm or interruptible. Commercial and industrial consumers are further categorized as nonutility power production.

Approval of the Form EIA-176 for use through 1999 was received in 1996 from OMB. The form was modified as outlined in the "Change in Definition of Consumption Sector" below.

After being approved by the OMB in 1999, the Form EIA-176 was revised to: (1) change the filing date from April 1 following the end of the report year to March 1 following the end of the report year, (2) remove the requirement to distinguish between firm and interruptible deliveries to consumers; and (3) remove the requirement to distinguish between gas volumes delivered to commercial and industrial consumers having nonutility generation of electricity from those not generating electricity.

Data reported on this form are not considered proprietary. Response to the form continues to be mandatory.

In January 2000, forms for report year 1999 were mailed to all identified interstate natural gas pipeline companies; intrastate natural gas pipeline companies; investor and municipally owned natural gas distributors; underground natural gas storage operators; synthetic natural gas plant operators; field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities) other than for lease or plant use or processing; and field, well, or processing-plant operators that transport gas to, across, or from a State border through field or gathering facilities. Detailed instructions for completing the form were included in each survey package.

Completed forms were returned to the Natural Gas Division, Office of Oil & Gas, where each was checked for errors, corrected as necessary, and processed into computer-generated State and national data summaries.

# Change in Definition of Consumption Sector

With the 1996 annual reporting cycle, the Energy Information Administration changed the customer category used for reporting deliveries to consumers in the agricultural industry from commercial to industrial. Most natural gas consumed in agriculture is used to drive irrigation systems and to dry crops. Separate reports of the volumes affected are not available so the direct impact of this change is not known.

In comparing sectoral use over time, note that:

- there is an inherent shift in natural gas volumes from the commercial to industrial sectors due simply to changes in the reporting requirements. This break in series may indicate a spurious increase in industrial consumption with a corresponding decrease in the commercial sector;
- the sum of natural gas volumes consumed by the commercial and industrial sectors will not be changed by this modification in the instructions.

### Response Statistics

Each company and its parent company or subsidiaries were required to file if they met the survey specifications. The original mailing totaled 1,872 questionnaire packages. To this original mailing, 8 names were added and 18 were deleted as a result of the survey processing. Additions were the result of comparisons of the mailing list to other survey mailing lists. Deletions resulted from post office returns and determinations that companies were out of business, sold, or not within the scope of the survey. After all updates, the survey universe was 1,847 responses from approximately 1,400 companies.

Following the original mailing, second request mailing, and nonrespondents follow-up, 1,826 responses were entered into the data base. There were 21 nonrespondents.

# Summary of Form EIA-176 Data Reporting Requirements

The Form EIA-176 is a five-page form consisting of seven parts. Part I of the form contains identifying information including the company identification number, the company name and address, the State for which the report is filed, and

address correction information. Part II contains certification information. The body of the form (Parts III-VII) is a multiline schedule for reporting all supplies of natural gas and supplemental gaseous fuels and their disposition within the State indicated. Respondents filed completed forms with the EIA in Washington, D.C. Data for the year 1999 were due March 1, 2000.

Computer edit programs verified the report year, State code, and arithmetic totals. Further tests were made to ensure that all necessary data elements were present and that the data were reasonable and internally consistent. The computerized edit system produced error listings with messages for each failed edit test. To resolve problems, respondents were contacted by telephone and were required to file amended forms with corrected data.

All natural gas and supplemental gaseous fuels volumes were reported on a physical custody basis in thousand cubic feet, and dollar values were reported to the nearest whole dollar. All volumes were reported at 14.73 pounds per square inch absolute pressure and 60 degrees Fahrenheit. Other minor report standards were specified in the instructions booklet to assure that the filed data were consistent and could be readily processed.

# Comparison of the Form EIA-176 with Other Data Sources

Comparison of the EIA-176 data with data from similar series is another method of ensuring the validity of the data published in this report. This comparison on a company-by-company basis showed significant differences that respondents were required to reconcile.

The FPC-14, "Annual Report for Importers and Exporters of Natural Gas," was discontinued in September 1995. Data on imports and exports of natural gas, as collected by the EIA-176 survey, were checked by comparing individual responses with quarterly data reports, *Natural Gas Imports and Exports*, filed with the Office of Fossil Energy, U.S. Department of Energy. These quarterly reports are required as a condition of import/export authorizations. Where discrepancies were noted, respondents were required to file corrected reports.

Similarly, data on the underground storage of natural gas were compared with submissions of Form EIA-191, "Monthly Underground Gas Storage Report." If significant differences were noted, companies were contacted to reconcile the discrepancies. During 1999, the 116 companies filing the Form EIA-191 reported total injections of 2,614 billion cubic feet and total withdrawals of 2,791 billion cubic feet. This

compares to 2,596 billion cubic feet of injections and 2,769 billion cubic feet of withdrawals, as reported on the Form EIA-176.

Data on deliveries to residential, commercial, and industrial consumers were compared with data submitted on Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers." Where discrepancies were noted, respondents were required to file corrected reports for either and sometimes both surveys. Numerous telephone calls were made to clarify any misunderstandings concerning the correct filing of both forms. Typical errors included electric utility volumes combined with industrial volumes, sale for resale volumes reported as industrial consumption, cogeneration volumes not reported on Form EIA-857, and misinterpretation of general instructions.

A discussion of the comparison of the data on deliveries to electric utilities filed on Form EIA-176 and that reported in the EIA publication, *Electric Power Annual*, is included in this Appendix under "Electric Utility Data."

### Routine Form EIA-176 Edit Checks

A series of manual and computerized edit checks were used to screen the Form EIA-176. The edits performed included validity, arithmetic, and analytical checks. A computerized check was also made for consistency with previous filings.

The incoming forms for the survey were reviewed prior to keying. This prescan determined if the respondent identification (ID) number and the company name and address were correct, if the data on the form appeared complete and reasonable, and if the certifying information was complete.

Manual checks on the data were also made. Each form was prescanned to determine that data were reported on the correct lines. The flow of gas through interstate pipelines was checked at the company level to assure that each delivery from a State was matched with a corresponding receipt in an adjoining State.

# Form EIA-627 and Form EIA-895

# Survey Design

Beginning with 1980 data, natural gas production data previously obtained on an informal basis from appropriate State agencies were collected on Form EIA-627. This form was designed by the EIA to collect annual natural gas production data from the appropriate State agencies under a standard

data reporting system within the limits imposed by the diversity of data collection systems of the various producing States. It was also designed to avoid duplication of the efforts involved in the collection of production and value data by producing States and to avoid an unnecessary respondent burden on gas and oil well operators.

In 1993, the Office of Management and Budget approved the Form EIA-627 for use in report years 1994 through 1996. In April 1999, forms for report year 1998 were mailed to the appropriate agencies in 33 States. Completed forms were returned to the Data Operations Branch of the Reserves and Natural Gas Division for review, processing, and compilation.

In 1996, the Reserves and Natural Gas Division redesigned the Form EIA-895, formerly known as the "Monthly Quantity of Natural Gas Report." The Form EIA-895, "Monthly Quantity and Value of Natural Gas Report," has a Monthly and Annual Schedule (replaces the Form EIA-627) for quantity and value of natural gas production. The Annual Schedule is to be filed with the December Monthly Schedule each year and should include any changes or updates in previously reported monthly data.

### Response Statistics

Of the 33 natural gas producing States, 33 participated in the voluntary EIA-895 survey by filing the completed form or by responding to telephone contacts. Data on the quantities of nonhydrocarbon gases removed in 1999 were reported by the appropriate agencies of 11 of the 33 producing States. These 11 States accounted for 45 percent of total 1999 gross withdrawals. The State of Missouri reported zero gross withdrawals.

The commercial recovery of methane from coalbeds contribute a significant amount to the production totals in a number of States. Coalbed methane seams production quantities (in million cubic feet) are included in gross withdrawals totals for the following States: Alabama (114,657), Colorado (380,081), and New Mexico (610,062).

### Summary of EIA-895 Data Reporting Requirements

The Form EIA-895 is a two-page form divided into five parts. Part I requests identifying information including the name and location of the responding State agency and the name and telephone number of a contact person within the agency. Part II collects monthly data on the production of natural gas including gross withdrawals from both gas and oil wells;



# U.S. DEPARTMENT OF ENERGY ENERGY INFORMATION ADMINISTRATION Washington, D.C. 20585

Form Approved OMB No. 19050175 Expiration Date: 12/31/02 (Revised 1999)

# ANNUAL REPORT OF NATURAL AND SUPPLEMENTAL GAS SUPPLY AND DISPOSITION FORM EIA-176

|                                                                                                                                           |                                                                  |                                                                                 | REPORT Y                                                                                                   | EAR            |               |           |            |            |        |                        |          |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------|---------------|-----------|------------|------------|--------|------------------------|----------|
|                                                                                                                                           |                                                                  |                                                                                 | gy Administration Act of 19<br>VIII of the instructions.                                                   | 74 (Public Lav | / 93-275).  I | or the p  | ovisions o | concerning | the co | onfidentiality of info | rmation  |
| PART I: IDENTIF                                                                                                                           | ICATION                                                          |                                                                                 |                                                                                                            |                |               |           |            |            |        |                        |          |
| Complete and re                                                                                                                           | eturn by March                                                   | 1, 2000 to:                                                                     |                                                                                                            | Affix ı        | nailing lab   | el or ent | er mailin  | g address  |        |                        |          |
| Energy Informat<br>Mail Station: 2G<br>U.S. Department<br>Washington, D.C<br>Attn: Form EIA-<br>OR<br>Fax to: (202) 586<br>Questions? Cal | -024 FORSTL<br>t of Energy<br>C. 20585<br>176<br>6-1076 (ATTN: E | IA-176)                                                                         | Control (ID) No.  Name: Operations in (State): Street or Post Office Box City, State, Zip Code: Attention: | ···· -         |               |           |            |            |        |                        | <u> </u> |
| 1.0 Control No.                                                                                                                           | 2.0 0                                                            | Company Name                                                                    | э:                                                                                                         | 3.0 Report S   | tate          |           |            | E          | ΞIΑ    | 4.0 Revised Rep        | oort     |
|                                                                                                                                           |                                                                  |                                                                                 |                                                                                                            |                |               |           |            |            |        | Indicator              |          |
| b. Ch. c. Col d. Col e. Ott  5.1 Change compa a. Compan b. Operatio c. Street of d. City, Sta                                             | mpany was sold mpany went out oner changes, corr                 | ntion line, and// to, or merged v of business. C rections, or con r address to: | or mail address as indicated with, company entered belo sustomer accounts taken over mments:               | w.             | y entered be  | elow.     |            |            |        |                        |          |
|                                                                                                                                           |                                                                  |                                                                                 |                                                                                                            |                |               |           |            |            |        |                        |          |
| 1.0 Contact (Plea                                                                                                                         |                                                                  | ION (person r                                                                   | nost knowledgeable abor                                                                                    | ut the reporte | •             | Title     |            |            |        |                        |          |
| 3.0 Phone Number                                                                                                                          | er: ( )                                                          | -                                                                               | <b>4.0</b> Fax Number: (                                                                                   | ) -            | 5.0           | E-Mail A  | ddress:    |            |        |                        |          |
| 6.0 Signature                                                                                                                             |                                                                  |                                                                                 |                                                                                                            |                | 7.0           | Date      |            |            |        |                        |          |

Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

| 1.0 Control No.                                                     |                    | 3.0            | Report Stat              | е                  | Е                        | IA                           | 4.0 Revised   | Report   |                  |                                        |
|---------------------------------------------------------------------|--------------------|----------------|--------------------------|--------------------|--------------------------|------------------------------|---------------|----------|------------------|----------------------------------------|
|                                                                     |                    |                |                          |                    |                          |                              |               |          | Indicator        |                                        |
| PART III: TYPE OF COMPANY AND                                       | D GAS ACTIVITIE    | S OPER         | ATED IN THE REPOR        | RT STATE           |                          |                              |               |          |                  |                                        |
| 1.0 Type of company (check one)                                     |                    | <b>2.0</b> Gas | Activities Operated O    | nsystem Wit        | hin the Repo             | ort State                    | (check        | all that | apply)           |                                        |
| a. Investor owned distributor                                       |                    | a.             | Produced Natura          | al Gas             | m                        | · Ц                          | Delive        | ered for | Resale           |                                        |
| b Municipally owned distribu                                        | tor                | b.             | Gathered                 |                    | n.                       | Ш                            |               |          | ectly to consun  | ners                                   |
| c. Interstate pipeline                                              |                    | C.             | Processed                |                    | 0.                       | Ш                            | Other         | r (speci | fy)              |                                        |
| d. Intrastate pipeline                                              |                    | d.             | Purchased                | rototo (botus      | an tua ar m              | ara atata                    | ·a\           |          |                  |                                        |
| <ul><li>e. Storage operator</li><li>f. SNG plant operator</li></ul> |                    | e.<br>f.       | Transported Inte         | ,                  |                          |                              | :5)           |          |                  |                                        |
| g. Integrated oil and gas                                           |                    | g.             | Stored Undergro          |                    | WILLIII ONE SIG          | aic)                         |               |          |                  |                                        |
| h. Producer                                                         |                    | h.             | Stored LNG               | unu                |                          |                              |               |          |                  |                                        |
| i. Gatherer                                                         |                    | i.             | Injected Propane         | e-air              |                          |                              |               |          |                  |                                        |
| j. Processor                                                        |                    | j.             | Produced SNG             |                    |                          |                              |               |          |                  |                                        |
| k. Other (specify)                                                  |                    | k.             | Imported                 |                    |                          |                              |               |          |                  |                                        |
|                                                                     |                    | l              | Exported                 |                    |                          |                              |               |          |                  |                                        |
| PART IV: SUPPLY OF NATURAL A                                        | ND SUPPLEMEN       | TAL GAS        | S RECEIVED WITHIN        | OR TRANS           | SPORTED IN               | ITO REF                      | PORTS         | STATE    |                  |                                        |
|                                                                     | n Description      |                |                          | I                  | I                        |                              |               |          |                  | Estimate/                              |
|                                                                     | 2000               |                |                          | Volu<br>(Mcf at 14 | i <b>me</b><br>.73 psia) | Estima<br>Footno<br>(*see be | ote*<br>elow) | (inclu   | Cost ding taxes) | Estimate/<br>Footnote*<br>(*see below) |
| 1.0 Company-owned natural gas prod                                  | uced onsystem      |                |                          |                    |                          |                              |               | `        | ,                |                                        |
| 2.0 Onsystem purchases received:                                    |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| 2.1 From producers, gatherers, a                                    | nd/or gae processo | re             |                          |                    |                          |                              |               |          |                  |                                        |
|                                                                     |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| 2.2 From pipelines and/or distribu                                  |                    |                |                          | -                  |                          |                              |               |          |                  |                                        |
| 2.3 From synthetic natural gas pla                                  |                    | ie             |                          |                    |                          |                              |               |          |                  |                                        |
| 2.4 At State line or U.S. border from                               | om:                |                |                          |                    |                          |                              |               |          |                  |                                        |
| Company                                                             |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| State or Country                                                    |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| (Continue on Part VI, if mo                                         | re space is needed | )              |                          |                    |                          |                              |               |          |                  |                                        |
| 3.0 Transportation and/or exchange re                               | eceipts:           |                |                          |                    |                          |                              |               |          |                  |                                        |
| 3.1 Received within the report Sta                                  | ate                |                |                          |                    |                          |                              |               |          |                  |                                        |
| 3.2 Received at the State line or I                                 |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| Company                                                             | 0.0. 00.00         |                |                          |                    |                          |                              |               |          |                  |                                        |
|                                                                     |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| State or Country                                                    |                    | ,              |                          |                    |                          |                              |               |          |                  |                                        |
| (Continue on Part VI, if mo                                         |                    | )              |                          |                    | į                        |                              |               |          |                  |                                        |
| <b>4.0</b> Transported into the report State f                      | rom:               |                |                          |                    | -                        |                              |               |          |                  |                                        |
| State or Country                                                    |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| (Continue on Part VI, if mo                                         | re space is needed | )              |                          |                    | į                        |                              |               |          |                  |                                        |
| <b>5.0</b> Withdrawn from storage facilities:                       |                    |                |                          |                    | ļ                        |                              |               |          |                  |                                        |
| 5.1 Withdrawn from company-ope                                      | erated underground | l storage:     |                          |                    |                          |                              |               |          |                  |                                        |
| 5.1.1 Company-owned natura                                          | al gas             |                |                          |                    |                          |                              |               |          |                  |                                        |
| 5.1.2 Natural gas owned by o                                        | others             |                |                          |                    |                          |                              |               |          |                  |                                        |
| 5.2 Company-owned natural gas                                       |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| storage operators                                                   | •                  | `              | _                        |                    |                          |                              |               |          |                  |                                        |
| 5.3 Received from underground s                                     |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| · ·                                                                 | • .                |                |                          |                    |                          |                              |               |          |                  |                                        |
| 5.4 From liquefied natural gas sto                                  | -                  |                |                          | -                  |                          |                              |               |          |                  |                                        |
| <b>6.0</b> Synthetic natural gas produced                           |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| 7.0 Other sources of supply (specify s                              | source and/or      |                |                          |                    | į                        |                              |               |          |                  |                                        |
| kind of fuel):                                                      |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
| (Continue on Part VI, if mo                                         | re space is needed | )              |                          |                    | I                        |                              | ]             |          |                  |                                        |
| 8.0 Total supply within report State                                |                    |                |                          |                    |                          |                              |               |          |                  |                                        |
|                                                                     |                    |                | ining the data is includ |                    |                          |                              |               |          |                  |                                        |

<sup>\*</sup> Enter **E** if data reported is an estimate; enter **F** if a footnote explaining the data is included in PART VII.

| 1.0 Control No.  | 2.0 Company Name:                                             |                   | 3.0 Report Stat               | e El                                   | A 4.0 Revised                | Report                                 |
|------------------|---------------------------------------------------------------|-------------------|-------------------------------|----------------------------------------|------------------------------|----------------------------------------|
|                  |                                                               |                   |                               |                                        | Indicator                    |                                        |
| PART V: DISPO    | OSITION OF NATURAL AND SUPPLEMENTAL GA                        | AS RECEIVED WIT   | HIN OR TRANSPORTI             | ED OUT OF RE                           | PORT STATE                   |                                        |
|                  | Item Description                                              |                   | Volume<br>(Mcf at 14.73 psia) | Estimate/<br>Footnote*<br>(*see below) | Cost<br>(including<br>taxes) | Estimate/<br>Footnote*<br>(*see below) |
| 1.0 Used in well | , lease, and field operations                                 |                   |                               |                                        |                              |                                        |
| 2.0 Returned to  | oil and/or gas reservoirs                                     |                   |                               |                                        |                              |                                        |
| 3.0 Used, remove | ved, or lost in gas processing or treating plants             |                   |                               |                                        |                              |                                        |
| 3.1 Compar       | ny-operated plants::                                          |                   |                               | İ                                      |                              |                                        |
| 3.1.1            | Volume delivered to company-                                  |                   |                               | !<br>!                                 |                              |                                        |
|                  | operated plants for redelivery                                | Mcf               |                               | !                                      |                              |                                        |
| 3.1.2            | Volume used for plant fuel                                    |                   |                               |                                        |                              |                                        |
| 3.1.3            | Extraction loss estimated gas phase volume of liquid          | ds extracted      |                               |                                        |                              | !                                      |
| 3.1.4            | Volume of nonhydrocarbons removed (e.g., H <sub>2</sub> S & C | CO <sup>2</sup> ) |                               |                                        |                              | į                                      |
| 3.1.5            | Vented, flared, and/or lost                                   | •                 |                               |                                        |                              | ļ                                      |
| 3.2 Plants of    | perated by others:                                            |                   |                               |                                        |                              | ł                                      |
|                  | Volume delivered to plants                                    |                   |                               | <u> </u>                               |                              | l                                      |
|                  | operated by others for redelivery                             | Mcf               |                               | <u> </u>                               |                              | ĺ                                      |
| 3.2.2            | Total volume used, removed, vented and/or flared              |                   |                               |                                        |                              |                                        |
| 4.0 Added to st  | , ,                                                           |                   |                               |                                        |                              |                                        |
|                  | into company-operated underground storage:                    |                   |                               | !                                      |                              | !                                      |
| 4.1.1            | Company-owned natural gas                                     |                   |                               |                                        |                              |                                        |
| 4.1.2            | Natural gas owned by others                                   |                   |                               |                                        |                              | į                                      |
|                  | ny owned gas delivered directly to underground stora          |                   |                               |                                        |                              | į                                      |
|                  | ed to underground storage operators for the account           |                   |                               |                                        |                              | İ                                      |
|                  | to liquefied natural gas storage                              |                   |                               |                                        |                              | į                                      |
|                  |                                                               |                   |                               |                                        |                              | į                                      |
|                  | f company-owned natural gas:                                  |                   |                               |                                        |                              |                                        |
|                  | ed to other pipelines within the report State                 |                   |                               |                                        |                              |                                        |
|                  | ed to resellers (e.g., distribution companies)                |                   |                               |                                        |                              |                                        |
|                  | ed at the State line or U.S. border to:                       |                   |                               |                                        |                              |                                        |
| Comp             |                                                               |                   |                               |                                        |                              |                                        |
|                  | or Country                                                    |                   |                               |                                        |                              |                                        |
| ,                | inue on Part VI, if more space is needed)                     |                   |                               | <u> </u>                               |                              | į                                      |
|                  | · · · · · · · · · · · · · · · · · · ·                         | er of Consumers   |                               |                                        |                              |                                        |
| 5.4.1            | Residential Sales                                             |                   |                               |                                        |                              | <u> </u>                               |
|                  |                                                               |                   |                               |                                        |                              |                                        |
| 5.4.2            | Commercial Sales                                              |                   |                               |                                        |                              |                                        |
| 5.40             | In directiful Colors                                          |                   |                               |                                        |                              |                                        |
| 5.4.3            | Industrial Sales                                              |                   |                               |                                        |                              |                                        |
| F 4 4            | Other New Hilt - Davies Bradwass Cales                        |                   |                               |                                        |                              |                                        |
| 5.4.4            | Other Nonutility Power Producer Sales                         |                   |                               |                                        |                              |                                        |
| E 4 E            | Flactric Litility Salas                                       |                   |                               |                                        | l                            |                                        |
| 5.4.5            | Electric Utility Sales                                        |                   |                               |                                        |                              |                                        |
| 5.4.6            | Natural Gas Used as Vehicle Fuel                              |                   |                               |                                        |                              |                                        |
| 3.4.0            | radarai Odo Ooda do verilole i dei                            |                   |                               |                                        |                              |                                        |
|                  |                                                               |                   |                               |                                        |                              |                                        |
| 6.0 Average hea  | at content of gas delivered directly to consumers             | Btu               |                               |                                        |                              |                                        |

 $<sup>^{\</sup>star}$  Enter **E** if data reported is an estimate; enter **F** if a footnote explaining data is included in PART VII.

| 1.0 Control No.                                                                            | 3.0 Report Sta               | ate [               | EIA 4.0 Revised Report                                |              |                       |                                        |
|--------------------------------------------------------------------------------------------|------------------------------|---------------------|-------------------------------------------------------|--------------|-----------------------|----------------------------------------|
|                                                                                            |                              |                     |                                                       |              | Indica                | tor                                    |
| PART V: DISPOSITION OF NAT                                                                 | URAL AND SUPPLEMENT          | AL GAS RECEIVED W   | ITHIN OR TRANSPORT                                    | TED OUT OF R | EPORT STATE (co       | ntinuation)                            |
| 1                                                                                          | tem Description              |                     | Volume (Mcf at 14.73 psia)  Estimat Footnot (*see bel |              | Cost (including taxes | Estimate/<br>Footnote*<br>(*see below) |
| 7.0 Natural gas transported for the                                                        | e account of others          |                     |                                                       | Î<br>        |                       |                                        |
| 7.1 Delivered to other pipeline                                                            | s within the report State    |                     |                                                       |              |                       |                                        |
| 7.2 Delivered to resellers for the                                                         | he account of others         |                     |                                                       |              |                       |                                        |
| 7.3 Delivered at the State line                                                            | or U.S. border to:           |                     |                                                       | i<br>!       |                       |                                        |
| Company                                                                                    |                              |                     |                                                       |              |                       |                                        |
| State or Country                                                                           |                              |                     |                                                       |              |                       | į                                      |
| (Continue on Part VI, if                                                                   | more space is needed)        |                     |                                                       | Î<br>!       | -<br> <br> -          |                                        |
| 7.4 Transported and delivered                                                              | to consumers for the accou   | unt of others:      |                                                       |              |                       |                                        |
|                                                                                            | N                            | lumber of Consumers |                                                       | !<br>!<br>!  |                       |                                        |
| 7.4.1 Residential Con                                                                      | nsumers                      |                     |                                                       |              |                       |                                        |
| 7.4.2 Commercial Co                                                                        | onsumers                     |                     |                                                       |              | j                     |                                        |
| 7.4.3 Industrial Cons                                                                      | sumers                       |                     |                                                       |              | j                     |                                        |
|                                                                                            | y Power Producer             |                     |                                                       |              |                       |                                        |
| 7.4.5 Electric Utility (                                                                   | Consumers                    |                     |                                                       |              | ļ                     |                                        |
| 7.4.6 Natural Gas Us                                                                       | sed as Vehicle Fuel          |                     |                                                       |              | İ                     | İ                                      |
| 8.0 Deliveries of exchange gas or                                                          | storage gas                  |                     |                                                       |              |                       |                                        |
| <ul><li>8.1 Delivered at point(s) withir</li><li>8.2 Delivered at the State line</li></ul> |                              |                     |                                                       |              |                       |                                        |
| Company                                                                                    | or U.S. Border to.           |                     |                                                       | į            | į                     | İ                                      |
| State or Country                                                                           |                              |                     |                                                       |              |                       |                                        |
| (Continue on Part VI, if                                                                   | more space is needed)        |                     |                                                       | î<br>Î       | 1<br>                 |                                        |
| 9.0 Used in pipeline, storage and/                                                         | or distribution operations . |                     |                                                       |              |                       |                                        |
| <b>10.0</b> Other disposition (specify)                                                    |                              |                     | 4                                                     |              |                       |                                        |
| (Continue on Part VI, if                                                                   | more enace is needed)        |                     |                                                       |              |                       | -                                      |
| 11.0 Total disposition accounted for                                                       | • •                          |                     |                                                       |              |                       |                                        |
| 12.0 Unaccounted for gas supply                                                            |                              |                     |                                                       |              |                       |                                        |

 $<sup>^{\</sup>star}$  Enter **E** if data reported is an estimate; enter **F** if a footnote explaining data is included in PART VII.

| 1.0 Control No.                   | 2.0 Company Name:                           |         | 3.0 Report Sta                | te E                                   | EIA <b>4.0</b> Revised Report |                                        |  |
|-----------------------------------|---------------------------------------------|---------|-------------------------------|----------------------------------------|-------------------------------|----------------------------------------|--|
|                                   |                                             |         |                               |                                        | Indica                        | tor                                    |  |
| PART VI: CONTINUATION SHE         | ET (To be used only if insufficient space w | as prov | vided on Part IV and/o        | or Part V)                             | She                           | et of                                  |  |
| Si                                | upply (Continued)                           |         | Volume<br>(Mcf at 14.73 psia) | Estimate/<br>Footnote*<br>(*see below) | Cost or Revenue               | Estimate/<br>Footnote*<br>(*see below) |  |
| PART IV, 2.4: On-system purchas   | ses received at State line                  |         |                               |                                        |                               |                                        |  |
| or U.S. border from: (C           | ontinued)                                   |         |                               |                                        |                               |                                        |  |
| Company                           |                                             |         |                               |                                        |                               |                                        |  |
| State or Country                  |                                             |         |                               |                                        |                               |                                        |  |
| Company                           |                                             |         |                               |                                        |                               |                                        |  |
| State or Country                  |                                             |         |                               |                                        |                               |                                        |  |
| PART IV, 3.2: Transportation and  | /or exchange receipts at State line         |         |                               |                                        |                               |                                        |  |
| or U.S. border from: (C           | Continued)                                  |         |                               |                                        |                               | İ                                      |  |
| Company                           |                                             |         |                               |                                        |                               | İ                                      |  |
| State or Country                  |                                             |         |                               |                                        |                               | İ                                      |  |
| Company                           |                                             |         |                               |                                        |                               | İ                                      |  |
| State or Country                  |                                             |         |                               |                                        |                               |                                        |  |
| PART IV, 4.0: Transported into th | e report State from: (Continued)            |         |                               |                                        |                               | İ                                      |  |
| State or Country                  |                                             |         |                               |                                        |                               | İ                                      |  |
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| State or Country                  |                                             |         |                               |                                        |                               | İ                                      |  |
| PART IV, 7.0: Other sources of so | upply (specify source and/or                |         |                               |                                        |                               | İ                                      |  |
| kind of fuel): (Continued         | d)                                          |         |                               |                                        |                               | i                                      |  |
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| •                                 | position (Continued)                        | 1       |                               |                                        | 1                             | 1                                      |  |
|                                   | atural gas deliveries at State line or      |         |                               |                                        |                               |                                        |  |
| U.S. border to: (Continu          | red)                                        |         |                               |                                        |                               |                                        |  |
| Company                           |                                             |         |                               |                                        |                               |                                        |  |
| State or Country                  |                                             |         |                               |                                        |                               |                                        |  |
| Company                           |                                             |         |                               |                                        |                               |                                        |  |
| State or Country                  | and the second of                           |         |                               |                                        |                               |                                        |  |
| PART V, 7.3: Transported for the  |                                             |         |                               |                                        |                               | j                                      |  |
| report State to: (Continu         | led)                                        |         |                               |                                        |                               | j                                      |  |
| State or Country                  |                                             |         |                               |                                        |                               | į                                      |  |
| State or Country                  |                                             |         |                               |                                        |                               | į                                      |  |
| State or Country                  |                                             |         |                               |                                        |                               | j                                      |  |
| State or Country                  | nge gas at State line or U.S. border to:    |         |                               |                                        |                               | į                                      |  |
|                                   | ige gas at state line of 0.5. border to.    |         |                               |                                        |                               | j                                      |  |
| (Continued)                       |                                             |         |                               |                                        |                               | j                                      |  |
| Company State or Country          |                                             |         |                               |                                        |                               | j                                      |  |
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| Company State or Country          |                                             |         |                               |                                        |                               | į                                      |  |
| PART V, 10.0: Other disposition ( | enecify): (Continued)                       |         |                               |                                        |                               |                                        |  |
| TART V, TU.U. Other disposition ( | apecity). (Continued)                       |         |                               |                                        |                               |                                        |  |
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<sup>\*</sup> Enter **E** if data reported is an estimate; enter **F** if a footnote explaining the data is included in PART VII.

| <b>1.0</b> Con | trol No.    | 2.0                        | Company Nam       | ne:         | 3.0 Report State | EIA | T | 4.0 Revised Rep | ort |
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| PART V         | /II: FOOTNO | TES                        |                   |             |                  |     |   |                 |     |
| Part<br>No.    | Item<br>No. | Sub-item (S<br>Company, or | State,<br>r Line) | Line<br>No. | Footnote         | •   |   |                 |     |
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Page 6

volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on lease; and marketed production. Part III of the form is for reporting the monthly volume and value of marketed production. Part IV of the form is for reporting the annual data, including the number of producing gas wells, the production of natural gas including gross withdrawals from both gas and oil wells; volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on lease; marketed production; value of marketed production; and quantity of marketed production (value based). Part V is space to be used by the respondent to explain data elements reported that may be based on definitions differing from those applied to data in previous years.

### Routine Form EIA-895 Edit Checks

Each filing of the Form EIA-895 is manually checked for reasonableness and mathematical accuracy. Volumes are converted, as necessary, to a standard 14.73 psia pressure base. Value data are compared to the previous year's data for reasonableness. When data on nonhydrocarbon gases removed, gas vented and flared, and gas used for repressuring are not reported for a State that historically reported one or more of these items, a volume is imputed. The imputation is based on the average ratio of gas volumes in the missing category to total gross withdrawals in States with values reporting gas in that category. This average ratio is applied to the volume of total gross withdrawals reported by the State to calculate the volume for the missing items. State agencies are contacted by telephone in order to correct errors. Amended filings or resubmissions are not a requirement, since participation in the survey is voluntary.

# Comparison of the Form EIA-895 with Other Data Sources

Annual production data, as reported on the Form EIA-895, are compared to the sum of monthly data previously reported on the Monthly Schedule. The comparison is made in order to assure the reasonableness of the data reported on the Form EIA-895, Annual Schedule. Any significant differences are resolved by contacting the reporting State.

For discussion of the comparison of production data collected on Form EIA-895 and that collected on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves," see the EIA report, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual Reports.

# **Electric Utility Data**

Declines in electric utility consumption and increases in industrial consumption may reflect the restructuring of the electric utility industry. As this restructuring proceeds, electricity generation plants have been sold to corporate entities that are not regulated utilities and the classification of those plants immediately changes. The volumes of gas previously reported as consumed by electric utilities are now reported delivered to "other nonutility generators." In this publication, the Energy Information Administration includes natural gas volumes consumed by these nonutility generators as part of industrial consumption.

The electric utility data published in this report are taken from the Forms EIA-759, "Monthly Power Plant Report" and FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." These data were used in order to maintain consistency among EIA publications. Electric data are necessary on the Form EIA-176 to provide a supply/disposition balance on the form. Differences in the two surveys are apparent in the results published in Table 14, "Natural Gas Deliveries to Consumers by State," and Table 17, "Natural Gas Delivered to Electric Utilities for the Account of Others by State," where volumes in Table 17 sometimes exceed volumes in Table 14. A State-by-State comparison of the reported volumes of natural gas, as collected on the Forms EIA-176 and EIA-759 is shown in Table A1. The national totals differ by 320 billion cubic feet or 11.5 percent in relative terms.

While processing the data reported on the Form EIA-176, the EIA made special efforts to determine the reasons for the differences in reporting of electric utility data on the Forms EIA-176 and EIA-759. Typical instances of misreporting occurred in the reporting of gas delivered to electric utilities for the account of others. Some companies reported these deliveries under sales for resale. Others reported them under transportation, exchange and/or storage deliveries. A few others reported them under transported to industrials. Companies making mistakes were asked to refile, and new companies were asked to file when they were found making deliveries of gas. Most companies were cooperative, and their refilings and new filings improved the accuracy of the data.

### Other Data Sources

The U.S. Minerals Management Service (USMMS) supplied data on the quantity and value of natural gas production and the number of producing wells in the Gulf of Mexico Outer Continental Shelf. Volumes of extraction losses were



### U.S. DEPARTMENT OF ENERGY Energy Information Administration Washington, D.C. 20585

Form Approval OMB No. 19050192 Expiration Date: 12/31/02 (Revised 1999)

# MONTHLY QUANTITY AND VALUE OF NATURAL GAS REPORT FORM EIA-895

| This report is voluntary under Public Law 93-275. For the                    | e provisions concerning the | confidentiality of ir | nformation and sanctions | , see Section           | s VI and | VII of t | ne inst | ructio | ons. |
|------------------------------------------------------------------------------|-----------------------------|-----------------------|--------------------------|-------------------------|----------|----------|---------|--------|------|
| PART I. IDENTIFICATION DATA                                                  |                             |                       |                          |                         |          |          |         |        |      |
| 1. Name of State Reporting                                                   |                             |                       | 2. Report Period:        | Month                   |          | Year     |         |        |      |
|                                                                              |                             |                       |                          |                         | 2        | 0        |         |        |      |
| 3. Name of Office/Agency                                                     |                             |                       | Complete and retur       | rn forms to             | :        |          |         |        |      |
|                                                                              |                             |                       |                          | formation<br>on: 2G-024 |          |          | n, El   | -45    |      |
| 4. Office Address (Street, City, State, Zip Code                             | <u> </u>                    |                       | Washingt<br>Attn: EIA-   | on, D. C. 2<br>-895     | 0585     |          |         |        |      |
| 4. Office Address (officer, only, office, 21p oode)                          |                             | OR Fax                | to: (202) 58             | 6-1076                  |          |          |         |        |      |
|                                                                              |                             |                       | Question                 | s? Call (20             | 2) 586-  | 6119     |         |        |      |
| PART II. NATURAL GAS VOLUMES (Report All Volumes in Thousands of Cubic Feet) |                             |                       |                          |                         |          |          |         |        |      |
| Enter the pressure base at which all volumes a                               | re reported (psia at 60     | degrees Fahrei        | nheit)                   |                         |          |          |         |        |      |
| Item                                                                         |                             |                       | Vo                       | olume                   |          |          |         |        |      |
|                                                                              |                             | (Thousan              | d cubic fee              | et)                     |          | _        |         |        |      |
| Gross Withdrawals (excluding lease condensa                                  | te)                         |                       |                          |                         |          |          |         |        |      |
| Gas and Condensate Wells                                                     |                             |                       |                          |                         |          |          |         |        |      |
| Oil Wells (Casinghead)                                                       |                             |                       |                          |                         |          |          |         |        |      |
| TOTAL                                                                        |                             |                       |                          |                         |          |          |         |        |      |
| Used for Repressuring                                                        |                             |                       |                          |                         |          |          |         |        |      |
| Vented and Flared                                                            |                             |                       |                          |                         |          |          |         |        |      |
| Nonhydrocarbon Gases Removed                                                 |                             |                       |                          |                         |          |          |         |        |      |
| Natural Gas Used as Fuel on Leases                                           |                             |                       |                          |                         |          |          |         |        |      |
| Marketed Production (Excluding Lease Fuel)                                   |                             |                       |                          |                         |          |          |         |        |      |
| PART III. QUANTITY AND VOLUME OF MARKE                                       | TED PRODUCTION              |                       |                          |                         |          |          |         |        |      |
| Volume (thousand cubic fe                                                    | et)                         |                       | Value (tho               | usand dolla             | ars)     |          |         |        |      |
|                                                                              |                             |                       |                          |                         |          |          |         |        |      |
| PART III. CONTACT INFORMATION (person mo                                     | ost knowledgeable abou      | ut the reported       | data)                    |                         |          |          |         |        |      |
| 5. Contact Name:                                                             |                             | 6. Title:             |                          |                         |          |          |         |        |      |
| 7. Phone Number: ( ) -                                                       | ) -                         | 9. E-Mail             | Address:                 |                         |          |          |         |        |      |
| 10. Signature:                                                               |                             | <b>11.</b> Date:      |                          |                         |          |          |         |        |      |

Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

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Energy Information
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**U.S. DEPARTMENT OF ENERGY**Energy Information Administration
Washington, D.C. 20585

Form Approved OMB No. 19050192 Expiration Date: 12/31/02 (Revised 1999)

# Washington, D.C. 20585

MONTHLY QUANTITY AND VALUE OF NATURAL GAS REPORT

**FORM EIA-895** 

|                                                                                                       |                                                                                                     |                                                                                                   | Quantity of<br>Marketed<br>Production<br>(Value<br>Based) |         |          |       |       |     |      |      |        |           |         |          |          |       |                  |  |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|-------|------------------|--|
|                                                                                                       |                                                                                                     |                                                                                                   | Value of<br>Marketed<br>Production                        |         |          |       |       |     |      |      |        |           |         |          |          |       |                  |  |
| ted)                                                                                                  |                                                                                                     |                                                                                                   | Marketed<br>Production                                    |         |          |       |       |     |      |      |        |           |         |          |          |       |                  |  |
| een complet                                                                                           |                                                                                                     |                                                                                                   | Natural<br>Gas Used<br>as Fuel on<br>Leases               |         |          |       |       |     |      |      |        |           |         |          |          |       |                  |  |
| / reports has b                                                                                       | sporting year                                                                                       | heit)                                                                                             | Non-<br>hydrocarbon<br>Gases<br>Removed                   |         |          |       |       |     |      |      |        |           |         |          |          |       |                  |  |
| ar of monthly                                                                                         | r 31 for the re                                                                                     | grees Fahren                                                                                      | Vented<br>and Flared                                      |         |          |       |       |     |      |      |        |           |         |          |          |       |                  |  |
| า a calendar ye                                                                                       | as of Decembe                                                                                       | l (psia at 60 $^\circ$ de                                                                         | Used for<br>Repressuring<br>Etc.                          |         |          |       |       |     |      |      |        |           |         |          |          |       |                  |  |
| npleted wher                                                                                          | ls in operatior                                                                                     | s are reportec                                                                                    | Total                                                     |         |          |       |       |     |      |      |        |           |         |          |          |       |                  |  |
| PART IV: ANNUAL SCHEDULE (to be completed when a calendar year of monthly reports has been completed) | Enter the total number of producing gas wells in operation as of December 31 for the reporting year | Enter the pressure base at which all volumes are reported (psia at $60^\circ$ degrees Fahrenheit) | Oil Wells<br>(Casinghead)                                 |         |          |       |       |     |      |      |        |           |         |          |          |       |                  |  |
| ANNUAL SCHE                                                                                           | otal number of pr                                                                                   | ressure base at                                                                                   | Gas and<br>Condensate<br>Wells                            |         |          |       |       |     |      |      |        |           |         |          |          |       | PART V: COMMENTS |  |
| PART IV:                                                                                              | Enter the to                                                                                        | Enter the p                                                                                       | Month                                                     | January | February | March | April | May | June | July | August | September | October | November | December | Total | PART V: C        |  |

reported on Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." Heat (Btu) content extraction loss was estimated from data reported on Form EIA-64A and Form EIA-816, "Monthly Natural Gas Liquids Report." Volumes and prices of natural gas imports and exports were reported to the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. These data are nonproprietary and are filed annually by each individual or organization having authorization to import and export natural gas.

# **Report Methodology**

### Marketed Production

Marketed production of natural gas is taken from responses to Part IV of the Form EIA-895. It is the quantity of natural gas produced that is available for marketing and is reported in Tables 3 and 6. It refers to quantities of gas available after processes related to production are complete. These processes are repressuring, pressure maintenance, cycling, venting and flaring, removing nonhydrocarbon gases, using fuel on the lease.

Average wellhead prices are calculated from volumes and values reported in Part IV of the Form EIA-895. These data are shown as "Reported Wellhead Value" in Table 6. The volumes in this section refer to the actual amounts of natural gas reported to the States as sold.

In many States, the marketed production volumes are larger than the reported wellhead value volumes. Differences in these volumes generally result from differences in definition and reporting requirements for separate data systems in the State. For example, while production quantities of federal, tribal, and State royalty gas are included in marketed production, some State reporting rules exclude these quantities from reported wellhead value volumes.

# Natural Gas Processed and Extraction Loss

Extraction loss is the reduction in the volume of natural gas available for disposition resulting from the removal of natural gas liquid constituents at natural gas processing plants. It represents that portion of the "raw" gas stream that is transferred from the natural gas supply chain to the petroleum and natural gas liquids supply chain. Extraction loss does not include the reduction in volume resulting from the removal of nonhydrocarbon constituents or gas used as fuel, vented, flared, or otherwise disposed of within natural gas processing plants. Extraction loss also results in a reduction in the total heat (Btu) content of the natural gas stream equal to the heat content of the liquids extracted.

The Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production," collects data on the volume of natural gas received for processing, the total quantity of natural gas liquids produced, and the resulting shrinkage (defined as extraction loss in this report) from all natural gas processing- and cycling-plant operators. The quantity of natural gas received and liquids produced are reported by State of origin of the natural gas. Shrinkage volumes are calculated and reported by plant operators based upon the chemical composition of the liquids extracted using standard conversion factors specified in the form instructions. A description of the Form EIA-64A survey is presented in the EIA publication, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual Reports*.

The heat (Btu) content of liquids extracted is not reported on the Form EIA-64A. Therefore, in order to estimate the extraction loss heat content, data reported on the Form EIA-816, "Monthly Natural Gas Liquids Report," were used to determine the individual products contained in the total liquids reported on Form EIA-64A. A description of the Form EIA-816 survey is presented in the EIA publication, *Petroleum Supply Annual 1999*, Volume II.

To estimate the quantities of individual products extracted in each State, data from the Form EIA-64A survey were used to determine the total liquids production, and data from the Form EIA-816 survey were used to estimate the quantities of the individual products contained in those total liquids.

The Form EIA-816 captures information on the quantity of individual components (i.e., ethane, propane, normal butane, isobutane, and pentanes plus) produced or contained in mixes of plant liquids as determined by chemical analysis. The volumetric ratios of the individual components to the total liquids, as calculated from the 12 monthly Form EIA-816 reports for each State, were applied to the annual total liquids production, as reported on the Form EIA-64A, to estimate the quantities of individual components removed at gas-processing plants.

The heat (Btu) content of extracted liquids was estimated by applying conversion factors to the estimated quantities of products extracted in each State. These conversion factors, in million Btu per barrel of liquid produced, were ethane, 3.082; propane, 3.836; normal butane, 4.326; isobutane, 3.974; and pentane plus, 4.620. It should be noted that, at the State level, extraction losses are not necessarily related to State production. Gas processed in States may have originated, or been produced in other States. Some gas requires no processing.

### Lease and Plant Fuel

Lease and plant fuel represent those quantities of natural gas used in well, field, and/or lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and as fuel in natural gas processing plants.

Lease fuel data were collected for report year 1999, on the Form EIA-895, "Monthly Quantity and Value of Natural Gas Report." Of the 33 States reporting on the Form EIA-895, 21 States reported quantities of natural gas used as lease fuel. In the absence of reporting quantities on the Form EIA-895, the Form EIA-176 was used to estimate lease fuel quantities. Although EIA recognizes that lease data collected on the Form EIA-176 do not constitute a census or result from a statistically selected sample, the data collected in the survey provide the best information available to the EIA for estimating such usage. To estimate lease use during 1999 (Table 13), several simplifying assumptions were made:

- The quantity of gas used for lease fuel was assumed to be a function of gross withdrawals of natural gas from gas and oil wells.
- The average proportion of company-owned on-system production reported as used in lease operations by respondents to the Form EIA-176 was assumed to be typical of the average use by all operators as a proportion of gross withdrawals.
- Average usage was calculated separately for Alaska and for the lower 48 States to reflect the distinctive field operations in Alaska, particularly on the North Slope.

Form EIA-176 respondents reported volumes of company-owned onsystem production amounting to 7 percent of 1999 gross withdrawals (37 percent of gross withdrawals in Alaska and 2.3 percent of withdrawals in the lower 48 States). Lease use reported by respondents averaged 2.4 percent of reported production in Alaska and 4.7 percent of reported production in the lower 48 States. The fuel use estimates shown in Table 13 were calculated by applying the above ratios to the gross withdrawals from various States (Table 3) not reporting lease use on the EIA-895.

### Natural Gas Consumed as a Vehicle Fuel

Data on deliveries of natural gas delivered for use as a vehicle fuel were collected for the first time in 1990. In 1990 and 1991 deliveries of natural gas for vehicle fuel use were included with volumes delivered to commercial consumers. Beginning with the *Natural Gas Annual 1992*, vehicle fuel volumes are no longer included with commercial volumes.

### Coverage of Consumer Prices

Coverage for prices varies by consumer sector as discussed below. All average prices are computed by dividing the reported revenue by its associated sales volume. Prices for deliveries of natural gas to consumers, except electric utilities, are calculated from reports to Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." City gate prices are calculated from reports to the Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers." Both of these forms are completed by companies that deliver natural gas to end-use consumers.

With the unbundling of services in the natural gas industry, pipeline and local distribution companies provide transportation service for their end-user customers. In this report, those volumes are described as deliveries of gas for the account of others. When companies that deliver gas are the sellers of that gas, they are able to report the associated revenue to the Energy Information Administration. Those volumes are described as onsystem sales. When the firm that physically delivers gas to the end user acts as a transportation agent, it does not know the sales price of the gas. Respondents, therefore, do not report a revenue amount associated with deliveries for the account of others in their submissions of the Form EIA-176.

City gate: City gate prices represent the total cost paid by gas distribution companies for gas received at the point where the gas is physically transferred from a pipeline company or transmission system. This price is intended to reflect all charges for the acquisition, storage, and transportation of gas as well as other charges associated with the LDC's obtaining the gas for sale to consumers.

Prices for gas delivered to the city gate represent all of the volumes of gas delivered. Since these prices are reported on a monthly form, the annual average city gate price is calculated by summing the monthly revenues reported and dividing that figure by the sum of the monthly reported volumes.

**Residential:** Prices in this publication for the residential sector cover nearly all of the volumes of gas delivered.

Commercial and Industrial: Prices for the commercial and industrial sectors are often associated with relatively small volumes of the total gas delivered. This occurs because they are reported by those that deliver gas and not by either the gas resellers or by the consumers. Beginning with the reporting of 1996 data, the EIA has changed the customer classification

used for reporting deliveries to consumers in the agricultural industry from commercial to industrial. This change affects the calculation of prices because these volumes and revenues previously classified as commercial are now classified as industrial. Separate reports of the volumes and revenues affected are not available so the direct impact of this change is not known.

Facilities that generate electricity but are not regulated are known as nonutility power producers. A nonutility power producer may be a commercial facility, an industrial facility, or a facility that produces electricity for resale. Deliveries of natural gas to nonutility power producers are reported on the Form EIA-176. The volumes and associated revenues for deliveries to nonutility producers who are primarily commercial establishments are included in the calculation of commercial prices. Those for deliveries to both nonutility producers who are primarily industrial establishments and nonutility establishments that produce electricity for resale are included in the calculation of industrial prices.

**Electric Utilities:** Prices for natural gas are also reported to the EIA on the Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," a consumer survey form. Electric utility prices in this report are taken from this form. The respondents are all large regulated electric utilities that report consumption and prices of fuels and represent most of the volumes delivered to electric utilities. These prices are also published in the EIA report, *Cost and Quality of Fuels for Electric Utility Plants*. Prices to electric utilities, because they are derived from a survey of the utilities themselves, represent most of the volumes consumed by this sector.

**Vehicle Fuel:** Most of the natural gas delivered for vehicle fuel represents deliveries to refueling stations that are used primarily or exclusively by fleet vehicles. Thus, the prices are often those associated with the operation of fleet vehicles and may be based on internal transfer prices for companies primarily in the natural gas business.

# Natural Gas Balancing Item

The natural gas balancing item represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. It is calculated for each State as the result of a comparison between total reported supply and total reported disposition (Table 2). In the formula used, total reported supply is the sum of marketed production, net interstate movements, net movements across U.S. borders, and supplemental gaseous fuels supply. Total reported disposition is the sum of extraction loss, net storage changes (net additions to storage), and

consumption. When this calculation results in a negative quantity for the balancing item it represents an excess of reported supply in relation to reported disposition, and positive quantities indicate the opposite situation.

The differences between supply and demand represent quantities lost, the net result of gas company conversions of flow data metered at varying temperature and pressure conditions to a standard temperature and pressure base, metering inaccuracies, the effect of variations in company accounting and billing practices, differences between billing cycle and calendar-period time frames, and imbalances resulting from EIA's merger of data reporting systems, which vary in scope, format, definitions, and type of respondents. The balancing items in individual States may also reflect the underreporting on Form EIA-176 of gas transported across State borders for the account of others by some interstate pipelines.

### Census Divisions

The Bureau of the Census, U.S. Department of Commerce, has grouped the 50 States and the District of Columbia into Census divisions. Some of the tables and graphs in this report show data by Census division. These groupings are:

**New England:** Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Middle Atlantic: New Jersey, New York, and Pennsylvania.

East North Central: Illinois, Indiana, Michigan, Ohio, and Wisconsin.

West North Central: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota.

**South Atlantic:** Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, and West Virginia.

**East South Central:** Alabama, Kentucky, Mississippi, and Tennessee.

**West South Central:** Arkansas, Louisiana, Oklahoma, and Texas.

**Mountain:** Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming.

Pacific Contiguous: California, Oregon, and Washington.

Pacific Noncontiguous: Alaska and Hawaii

Table A1. Comparison of Electric Utility Natural Gas Consumption Data by State, 1999 (Million Cubic Feet)

| Alabama. 17,039 20,918 3,879 22,8 Alaska. 29,720 30,529 810 2.7 Alaska. 29,720 30,529 810 2.7 Artzona. 51,577 50,775 702 1.4 Artzona. 51,577 50,775 702 1.4 Artzona. 51,577 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.4 Artzona. 18,777 50,775 702 1.5 Artzona. 18,777 50,775 702 1.5 Artzona. 19,577 19,578 22,22 1.5 Brownare. 19,587 19,578 22,22 1.5 Brownare. 19,587 19,578 22,22 1.5 Brownare. 19,587 19,578 22,22 1.5 Brownare. 19,587 19,578 22,22 1.5 Brownare. 19,587 19,578 22,22 1.5 Brownare. 19,587 19,578 22,22 1.5 Brownare. 19,587 19,578 22,23 Illinois. 47,334 40,716 6.6,19 16.3 Indiana. 11,459 7,655 3.803 49,7 Brownare. 11,459 7,655 3.803 49,7 Brownare. 11,459 7,655 3.803 49,7 Brownare. 11,459 7,655 3.803 49,7 Brownare. 11,459 7,655 3.803 49,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 39,7 Brownare. 11,459 7,655 3.803 3,7 Brownare. 11,459 7,655 3.803 3,7 Brownare. 11,459 7,655 3.803 3,7 Brownare. 11,459 7,655 3.803 3,7 Brownare. 11,459 7,655 3.803 3,7 Brownare. 11,459 7,655 3.803 3,7 Brow | State          | Form<br>EIA-176 | Form<br>EIA-759 | Difference | MDP <sup>a</sup>  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|-----------------|------------|-------------------|
| Alaska         29,720         30,529         810         2.7           Artizona         51,577         50,875         702         1.4           Arkansas         38,197         40,088         1,891         5.0           California         141,730         144,655         29,24         2.1           Colorado         20,048         19,155         -893         4.7           Connectiout         13,704         13,095         -609         4.7           Deleware         19,587         19,878         292         1.5           Florida         330,659         319,274         +11,385         3.6           Georgia         23,713         20,537         -3,175         15.5           Illinois         47,334         40,716         -6,819         16.3           Incliana         11,459         7,655         -3,803         49.7           lowa         9,509         5,249         4,203         812           Kanesa         25,898         3,589         40,133         391.4           Kentucky         1,138         5,590         44,233         391.4           Louisiana         25,375         320,328         66,593         26.2 </td <td>Alabama</td> <td>17.030</td> <td>20.018</td> <td>2 970</td> <td>22.8</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Alabama        | 17.030          | 20.018          | 2 970      | 22.8              |
| Arizona 51,577 50,875 702 1,4 Arkansas 38,197 40,088 1,891 5.0 California 141,730 144,655 2,924 2,1 California 141,730 144,655 2,924 2,1 Colirodo. 20,048 19,155 9,983 4,7 Connecticut 13,704 13,095 400 4,7 Connecticut 13,704 13,095 400 4,7 Connecticut 13,704 13,095 400 4,7 Connecticut 13,704 13,095 400 4,7 Connecticut 13,704 13,095 400 4,7 Connecticut 15,873 292 1,5 Florida 330,659 319,274 11,386 3.6 Georgia 23,713 20,537 -3,175 15,5  Illinois 47,344 40,716 66619 16,3 Inclaina 71,439 7,655 3,803 49,7 Inclaina 71,439 7,655 3,803 49,7 Inclaina 71,439 7,655 3,803 49,7 Inclaina 71,439 7,655 3,803 49,7 Inclaina 71,439 7,655 3,803 49,7 Inclaina 71,439 7,655 3,809 10,193 39,7 Kentucky 11,138 5,590 4,453 391,4  Louisiana 253,735 32,328 66,593 26,2 Inclaina 253,735 320,328 66,593 26,2 Inclaina 254,24 16,399 1,824 11,1 Inclaina 34,920 51,120 12,203 2,4 Inclaina 44,567 6,365 2,038 44,7 Inclaina 49,920 51,120 12,203 2,4 Inclaina 49,920 51,120 12,203 2,4 Including 44,567 6,365 2,038 44,7 Inclaina 32,66 289 -38 13,0 Inclaina 32,66 289 -38 13,0 Inclaina 32,66 289 -38 13,0 Inclaina 32,66 289 -38 13,0 Inclaina 32,66 289 -38 13,0 Inclaina 32,66 289 -38 13,0 Inclaina 32,66 289 -38 13,0 Inclaina 32,66 289 -38 13,0 Inclaina 31,742 19,844 237 2,5 Inclaina 31,742 19,844 237 2,5 Inclaina 31,742 19,845 23,733 19,1 Inclaina 11,743 10,84 237 2,5 Inclaina 31,742 19,846 237 2,7 Inclaina 31,742 19,846 237 2,7 Inclaina 31,742 19,846 237 2,7 Inclaina 31,742 19,846 38,103 28,9 Inclaina 34,853 5,818 957 2,7 Inclaina 11,742 19,846 38,103 28,9 Inclaina 34,853 5,818 957 2,7 Inclaina 11,742 19,846 38,103 28,9 Inclaina 34,853 5,818 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,7 Inclaina 34,853 3,8581 957 2,858 3,8581 957 2, |                |                 |                 |            |                   |
| Arkansas 38,197 40,088 1,891 5.0 California 141,730 144,655 2,924 2,1 Colorado                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                 |                 |            |                   |
| California         141,730         144,655         2,924         2.1           Colorado.         20,488         19,155         -893         4.7           Connecticut.         13,704         13,095         -609         4.7           Delaware.         19,687         19,678         292         1.5           Florida.         330,659         319,274         -11,385         3.6           Georgia.         23,713         20,537         -3,175         15.5           Illinois.         473,34         40,716         -6,619         16.3           Indian.         11,459         7,655         -3,803         49.7           Iowa.         9,509         5,249         -4,261         81.2           Kansas.         25,696         35,889         10,193         39.7           Kentucky.         1,138         5,590         4,453         391.4           Louisiana.         253,735         30,238         66,593         26.2           Maryland.         18,224         16,399         -1,824         11.1           Louisiana.         253,735         30,238         66,593         26.2           Maryland.         18,224         16,399         -1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                 |            |                   |
| Colorado.         20,048         19,155         -893         4.7           Connecticut         13,704         13,095         -609         4.7           Delaware         19,587         19,878         292         1.5           Florida         300,659         319,274         -11,385         3.6           Georgia         23,713         20,537         -3,175         15.5           Illinois         47,334         40,716         -6,619         16.3           Indiana         1,459         7,655         -3,803         49.7           Kansas         26,606         35,889         10,193         39.7           Kentucky         1,138         5,590         4,453         391.4           Louisian         253,735         320,328         66,593         26.2           Maryland         18,224         16,399         -1,824         11.1           Massachusetts         8,426         8,141         -285         3.5           Minnesota         4,557         6,595         2,038         44.7           Missacipi         111,273         101,623         9,680         9.5           Missacipi         11,412         19,427         2,285                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Arkansas       |                 |                 |            |                   |
| Connecticut         13,704         13,095         609         4.7           Delaware         19,587         19,878         292         1.5           Florida         330,669         319,274         -11,385         3.6           Georgia         23,713         20,537         -3,175         15.5           Illinois         47,334         40,716         -6,619         16.3           Inclaina         11,459         7,655         -3,883         49,7           Iowa         9,509         3,889         10,103         39,7           Kentucky         1,138         5,590         4,453         391,4           Louisian         253,735         320,328         66,593         26,2           Maryland         18,224         16,399         -1,824         11,1           Maryland         18,224         16,399         -1,824         11,1           Massachusetts         8,426         8,141         -285         3.5           Minnesota         4,557         6,595         2,038         44.7           Missouri         111,273         101,623         -9,650         9.5           Missouri         14,142         19,427         5,285                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | California     | 141,730         | 144,655         | 2,924      | 2.1               |
| Delaware         19,587         19,878         292         1,5           Florida         330,659         319,274         -11,365         3,6           Georgia         23,713         20,537         -3,175         15.5           Illinois         47,334         40,716         -6,619         16.3           Indiana         11,459         7,655         -3,803         49,7           Iowa         9,509         5,249         -4,261         81,2           Karsasa         25,698         35,889         10,193         39,7           Kentucky         1,138         5,599         4,453         391.4           Louisiana         253,735         320,328         66,593         26,2           Maryland         18,224         16,399         1,824         11,1           Massachusetts         8,426         8,141         -285         3.5           Michigan         49,920         51,122         1203         24           Minnesota         4,557         6,595         2,038         44,7           Missouri         11,273         101,623         -9,650         9,5           Missouri         14,42         19,427         5,285                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Colorado       | 20,048          | 19,155          | -893       | 4.7               |
| Delaware         19,587         19,878         292         1,5           Florida         330,659         319,274         -11,365         3,6           Georgia         23,713         20,537         -3,175         15.5           Illinois         47,334         40,716         -6,619         16.3           Indiana         11,459         7,655         -3,803         49,7           Iowa         9,509         5,249         -4,261         81,2           Karsas         25,698         35,889         10,193         39,7           Kentucky         1,138         5,599         4,453         391.4           Louisiana         253,735         320,328         66,593         26,2           Maryland         18,224         16,399         1,824         11,1           Massachusettis         8,426         8,141         -285         3.5           Michigan         49,920         51,122         1203         24           Minnesota         4,557         6,595         2,038         44,7           Missouri         111,273         101,623         -9,650         9,5           Missouri         14,42         19,427         5,285 <td< td=""><td>Connecticut</td><td>13.704</td><td>13.095</td><td>-609</td><td>4.7</td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Connecticut    | 13.704          | 13.095          | -609       | 4.7               |
| Florida                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                 |                 |            | 1.5               |
| Georgia         23,713         20,537         -3,175         15.5           Illinois         47,334         40,716         -6,619         16.3           Indiana         11,459         7,655         -3,803         49,7           lowa         9,509         5,249         -4,261         81.2           Kansas         25,696         35,889         10,193         39.7           Kentucky         1,138         5,590         4,453         391.4           Louislan         253,735         320,328         66,593         26.2           Maryland         18,224         16,399         -1,824         11.1           Massachusetts         8,426         8,141         -285         3.5           Michigan         49,920         51,122         1,203         2.4           Minnesota         4,557         6,595         2,038         44.7           Mississippi         111,273         101,623         -9,650         9.5           Missour         14,142         19,427         5,285         37.4           Montana         326         289         -38         13.0           Nebraska         1,890         4,555         2,685         141.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                 |            |                   |
| Illinois                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                 |            |                   |
| Incliana         11/459         7,655         3,803         49,7           Iowa         9,509         5,249         4,261         812           Kansas         25,696         35,889         10,193         39,7           Kentucky         1,138         5,590         4,533         391,4           Louisiana         253,735         320,328         66,593         26,2           Maryland         18,224         16,399         -1,824         11,1           Massachusetts         8,426         8,141         -285         3,5           Michigan         49,920         51,122         1,203         2,4           Minnesota         4,557         6,595         2,038         44,7           Missouri         111,273         101,623         -9,650         9,5           Missouri         14,142         19,427         5,285         37,4           Montana         326         299         -38         13,0           Nebraska         1,890         4,555         2,665         141,0           Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0 <td>Georgia</td> <td>23,713</td> <td>20,537</td> <td>-3,175</td> <td>15.5</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Georgia        | 23,713          | 20,537          | -3,175     | 15.5              |
| lowa         9,509         5,249         -4,261         81.2           Kansas         25,696         35,889         10,193         39.7           Kentucky         1,138         5,590         4,453         391.4           Louislana         253,735         320,328         66,593         26.2           Maryland         18,224         16,399         -1,824         11.1           Massachusetts         8,426         8,441         -285         3.5           Michigan         49,920         51,122         1,203         2.4           Minnesota         4,557         6,595         2,038         44.7           Mississippi         111,273         101,623         -9,650         .9.5           Missouri         14,142         19,427         5,285         37.4           Montana         326         289         -38         13.0           Nebraska         1,890         4,555         2,665         141.0           Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,396         32,680         1,254         4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                 |                 |            |                   |
| Kansas         25,696         35,889         10,193         39,7           Kentucky         1,138         5,590         4,653         391,4           Louisiana         253,735         320,328         66,593         26,2           Maryland         18,224         16,399         -1,824         11,1           Massachusetts         8,426         8,141         -285         3.5           Michigan         49,920         51,122         1,203         2,4           Minnesota         4,557         6,595         2,038         44,7           Missouri         111,273         101,623         -9,650         9.5           Missouri         14,142         19,427         5,285         37,4           Montana         326         289         -38         13.0           Nebraska         1,890         4,555         2,665         141,0           Nevada         6,6750         65,105         1,645         2.5           New Hampshire         0         572         572         0           New Mexico         36,538         35,581         -957         2.7           New Mexico         36,538         35,581         -967         2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Indiana        | 11,459          | 7,655           | -3,803     | 49.7              |
| Kansas         25,696         35,889         10,193         39,7           Kentucky         1,138         5,590         4,653         391,4           Louisiana         253,735         320,328         66,593         26,2           Maryland         18,224         16,399         -1,824         11,1           Massachusetts         8,426         8,141         -285         3.5           Michigan         49,920         51,122         1,203         2,4           Minnesota         4,557         6,595         2,038         44,7           Missouri         111,273         101,623         -9,650         9.5           Missouri         14,142         19,427         5,285         37,4           Montana         326         289         -38         13.0           Nebraska         1,890         4,555         2,665         141,0           Nevada         6,6750         65,105         1,645         2.5           New Hampshire         0         572         572         0           New Mexico         36,538         35,581         -957         2.7           New Mexico         36,538         35,581         -967         2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | lowa           | 9,509           | 5.249           | -4,261     | 81.2              |
| Kentucky         1,138         5,590         4,453         391.4           Louisiana         253,735         320,328         66,593         26.2           Manyland         18,224         16,399         -1,824         11.1           Massachusetts         8,426         8,141         -285         3.5           Michigan         49,920         51,122         1,203         2.4           Minnesota         4,557         6,595         2,038         44.7           Mississipi         111,273         101,623         -9,650         .9.5           Missouri         14,142         19,427         5,285         37.4           Montana         326         289         -38         13.0           Nebraska         1,890         4,555         2,665         141.0           Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,338         32,680         1,254         4.0           New Mexico         36,538         35,581         -957         2.7           New Mexico         36,538         35,581         -957         2.7<                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                 |            |                   |
| Louisiana         253,735         320,328         66,593         26,2           Maryland         18,224         16,399         -1,824         11,1           Massachusetts         8,426         8,141         -285         3.5           Michigan         49,920         51,122         1,203         2.4           Minnesota         4,557         6,595         2,038         44,7           Mississippi         111,273         101,623         -9,650         9.5           Missouri         14,142         19,427         5,285         37.4           Montana         326         289         -38         13.0           Nebraska         1,890         4,555         2,665         141.0           Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,396         32,650         1,254         4.0           New Mexico         36,538         35,581         -957         2.7           New York         171,661         181,823         10,162         5.9           North Dakota         4         0         -4         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | -,              |                 |            |                   |
| Maryland         18,224         16,399         -1,824         11,1           Massachusetts         8,426         8,141         -285         3.5           Michigan         49,920         51,122         1,203         2.4           Minnesota         4,557         6,595         2,038         44,7           Mississippi         111,273         10,623         -9,660         9,5           Missouri         14,142         19,427         5,285         37,4           Montana         326         289         -38         13,0           Nebraska         1,890         4,555         2,665         141,0           Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,396         32,550         1,254         4,0           New Mexico         36,538         35,581         957         2,7           New York         171,661         181,823         10,162         59           North Dakota         4         0         4         0           Ohio         9,251         11,105         1,854         20.0 <tr< td=""><td>Nontrollery</td><td>1,130</td><td>ა,აჟი</td><td>4,403</td><td>381.<del>4</del></td></tr<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Nontrollery    | 1,130           | ა,აჟი           | 4,403      | 381. <del>4</del> |
| Maryland         18,224         16,399         -1,824         11,1           Massachusetts         8,426         8,141         -285         3.5           Michigan         49,920         51,122         1,203         2.4           Minnesota         4,557         6,595         2,038         44,7           Mississippi         111,273         10,623         -9,660         9,5           Missouri         14,142         19,427         5,285         37,4           Montana         326         289         -38         13,0           Nebraska         1,890         4,555         2,665         141,0           Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,396         32,550         1,254         4,0           New Mexico         36,538         35,581         957         2,7           New York         171,661         181,823         10,162         59           North Dakota         4         0         4         0           Ohio         9,251         11,105         1,854         20.0 <tr< td=""><td>Louisiana</td><td>253 735</td><td>320 328</td><td>66 593</td><td>26.2</td></tr<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Louisiana      | 253 735         | 320 328         | 66 593     | 26.2              |
| Massachusetts         8,426         8,141         -285         3.5           Michigan         49,920         51,122         1,203         2,4           Minnesota         4,557         6,595         2,038         44.7           Missoun         111,273         101,623         -9,650         9.5           Missoun         14,142         19,427         5,285         37.4           Montana         326         289         -38         13.0           Nebraska         1,890         4,555         2,665         141.0           Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,396         32,650         1,254         4.0           New Mexico         36,538         35,581         -957         2.7           New York         171,661         181,823         10,162         5.9           North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         4         0           Ohio         9,251         11,105         1,854         20.0 <tr< td=""><td></td><td></td><td></td><td></td><td></td></tr<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                 |                 |            |                   |
| Michigan.         49,920         51,122         1,203         2,4           Minnesota.         4,557         6,595         2,038         44.7           Mississippi.         111,273         101,623         9,650         9.5           Mississippi.         141,42         19,427         5,285         37.4           Montana.         326         289         -38         13.0           Nebraska.         1,890         4,555         2,665         141.0           Nevada.         66,750         65,105         -1,645         2.5           New Hampshire.         0         572         572         0           New Jersey.         31,396         32,650         1,254         4,0           New Jersey.         36,538         35,581         -957         2.7           New York.         171,661         181,823         10,162         5.9           North Carolina.         10,347         10,584         237         2.3           North Dakota.         4         0         -4         0           Ohio.         9,251         11,105         1,854         20.0           Oklahoma.         131,742         169,845         38,103         28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                 |            |                   |
| Minnesota         4,557         6,595         2,038         44.7           Mississippi         111,273         101,623         -9,650         9.5           Missour         14,142         19,427         5,285         37.4           Montana         326         289         -38         13.0           Nebraska         1,890         4,555         2,665         141.0           Newada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,396         32,650         1,254         4.0           New Wexico         36,538         35,581         -957         2.7           New York         171,661         181,823         10,162         5.9           North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio.         9,251         11,105         1,854         20.0           Oklahoma         131,742         169,845         38,103         28.9           Oregon         19,558         23,292         3,733         19.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                 |            |                   |
| Mississippi.         111,273         101,623         -9,650         9.5           Missouri.         14,142         19,427         5,285         37.4           Montana.         326         289         -38         13.0           Nebraska.         1,890         4,555         2,665         141.0           Nevada.         66,750         65,105         -1,645         2.5           New Hampshire.         0         572         572         0           New Jersey.         31,396         32,650         1,254         4.0           New Mexico.         36,538         35,581         -957         2.7           New York.         171,661         181,823         10,162         5.9           North Carolina.         10,347         10,584         237         2.3           North Dakota.         4         0         -4         0           Ohio         9,251         11,105         1,854         20.0           Oklahoma.         131,742         169,845         38,103         28.9           Oregon.         19,558         23,292         3,733         19.1           Pennsylvania.         10,729         10,376         -353                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                 |                 |            |                   |
| Missouri.         14,142         19,427         5,285         37.4           Montana.         326         289         -38         13.0           Nebraska.         1,890         4,555         2,665         141.0           Nevada.         66,750         65,105         -1,645         2.5           New Hampshire.         0         572         572         0           New Jersey.         31,396         32,650         1,254         40           New Jersey.         31,396         32,650         1,254         40           New Jersey.         31,396         32,650         1,254         40           New York.         171,661         181,823         10,162         5.9           North Carolina.         10,347         10,584         237         2.3           North Dakota.         4         0         -4         0           Ohio.         9,251         11,105         1,854         20.0           Oklahoma.         131,742         169,845         38,103         28.9           Oregon.         19,558         23,292         3,733         19.1           Pennsylvania.         10,729         10,376         -353         3.4 <td>Minnesota</td> <td>4,557</td> <td>6,595</td> <td>2,038</td> <td>44.7</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Minnesota      | 4,557           | 6,595           | 2,038      | 44.7              |
| Montana         326         289         -38         13.0           Nebraska         1,890         4,555         2,665         141.0           Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,396         32,650         1,254         4.0           New Mexico         36,538         35,581         -957         2.7           New York         171,661         181,823         10,162         5.9           North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio         9,251         11,105         1,854         20.0           Oklahoma         131,742         169,845         38,103         28.9           Oregon         19,558         23,292         3,733         19.1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368         —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Mississippi    | 111,273         | 101,623         | -9,650     | 9.5               |
| Montana         326         289         -38         13.0           Nebraska         1,890         4,555         2,665         141.0           Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,396         32,650         1,254         4.0           New Mexico         36,538         35,581         -957         2.7           New York         171,661         181,823         10,162         5.9           North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio         9,251         11,05         1,854         20.0           Oklahoma         131,742         169,845         38,103         28.9           Oregon         19,558         23,292         3,733         19.1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368         —      <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Missouri.'     | 14.142          | 19.427          | 5.285      | 37.4              |
| Nebraska         1,890         4,555         2,665         141.0           Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,396         32,650         1,254         4.0           New Mexico         36,538         35,581         -957         2,7           New York         171,661         181,823         10,162         5.9           North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio.         9,251         11,105         1,854         20.0           Oklahoma         131,742         169,845         38,103         28.9           Oregon         19,558         23,292         3,733         19.1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         6         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049 <td></td> <td></td> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |                 |            |                   |
| Nevada         66,750         65,105         -1,645         2.5           New Hampshire         0         572         572         0           New Jersey         31,396         32,650         1,254         4.0           New Mexico         36,538         35,581         -957         2.7           New York         171,661         181,823         10,162         5.9           North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio         9,251         11,105         1,854         20.0           Oklahoma         131,742         169,845         38,103         28.9           Oregon         19,558         23,292         3,733         19.1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368         —           Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                 |            |                   |
| New Hampshire         0         572         572         0           New Jersey         31,396         32,650         1,254         4.0           New Mexico         36,538         35,581         -957         2.7           New York         171,661         181,823         10,162         5.9           North Carollina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio         9,251         11,105         1,854         20.0           Oklahoma         131,742         169,845         38,103         28,9           Oregon         19,558         23,292         3,733         19,1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3,3           South Dakota         160         2,527         2,368            Tennessee         6,884         3,460         -3,424         98,9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                 |            |                   |
| New Jersey         31,396         32,650         1,254         4.0           New Mexico         36,538         35,581         -957         2.7           New York         171,661         181,823         10,162         5.9           North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio         9,251         11,105         1,854         20.0           Oklahoma         131,742         169,845         38,103         28.9           Oregon         19,558         23,292         3,733         19.1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368         —           Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Nevada         | 66,750          | 65,105          | -1,645     | 2.5               |
| New Mexico         36,538         35,581         -957         2.7           New York         171,661         181,823         10,162         5.9           North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio         9,251         11,105         1,854         20.0           Oklahoma         131,742         169,845         38,103         28.9           Oregon         19,558         23,292         3,733         19.1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368            Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10.7           Virginia         71,776         23,457         -48,318         206.0 </td <td></td> <td></td> <td></td> <td></td> <td>· ·</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                 |                 |            | · ·               |
| New York         171,661         181,823         10,162         5.9           North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio.         9,251         11,105         1,854         20.0           Oklahoma.         131,742         169,845         38,103         28,9           Oregon.         19,558         23,292         3,733         19,1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368            Tennessee         6,884         3,460         -3,424         98,9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10,7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | New Jersey     | 31,396          | 32,650          | 1,254      | 4.0               |
| New York         171,661         181,823         10,162         5.9           North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio.         9,251         11,105         1,854         20.0           Oklahoma.         131,742         169,845         38,103         28,9           Oregon.         19,558         23,292         3,733         19,1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368            Tennessee         6,884         3,460         -3,424         98,9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10,7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | New Mexico     | 36.538          | 35.581          | -957       | 2.7               |
| North Carolina         10,347         10,584         237         2.3           North Dakota         4         0         -4         0           Ohio         9,251         11,105         1,854         20.0           Oklahoma         131,742         169,845         38,103         28.9           Oregon         19,558         23,292         3,733         19.1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368         —           Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10.7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0           West Virginia         195         385         190         97.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |                 | 10 162     | 5.9               |
| Ohio.         9,251         11,105         1,854         20.0           Oklahoma.         131,742         169,845         38,103         28,9           Oregon.         19,558         23,292         3,733         19,1           Pennsylvania.         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368         —           Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont.         276         250         -27         10.7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0           West Virginia         195         385         190         97.7           Wisconsin         15,312         14,077         -1,235         8.8           Wyoming         0         167         167         0  <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                 |            |                   |
| Ohio.         9,251         11,105         1,854         20.0           Oklahoma.         131,742         169,845         38,103         28,9           Oregon.         19,558         23,292         3,733         19,1           Pennsylvania.         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368         —           Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont.         276         250         -27         10.7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0           West Virginia         195         385         190         97.7           Wisconsin         15,312         14,077         -1,235         8.8           Wyoming         0         167         167         0  <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | North Dolotte  | 4               | 0               | 4          | 0                 |
| Oklahoma       131,742       169,845       38,103       28.9         Oregon       19,558       23,292       3,733       19.1         Pennsylvania       10,729       10,376       -353       3.4         South Carolina       4,953       5,118       165       3.3         South Dakota       160       2,527       2,368       —         Tennessee       6,884       3,460       -3,424       98.9         Texas       952,244       1,207,293       255,049       26.8         Utah       6,513       6,478       -35       0.5         Vermont       276       250       -27       10.7         Virginia       71,776       23,457       -48,318       206.0         Washington       3,598       6,693       3,095       86.0         West Virginia       195       385       190       97.7         Wisconsin       15,312       14,077       -1,235       8.8         Wyoming       0       167       167       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |                 |                 | •          |                   |
| Oregon         19,558         23,292         3,733         19.1           Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368         —           Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10.7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0           West Virginia         195         385         190         97.7           Wisconsin         15,312         14,077         -1,235         8.8           Wyoming         0         167         167         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                 |                 |            |                   |
| Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368         —           Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10.7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0           West Virginia         195         385         190         97.7           Wisconsin         15,312         14,077         -1,235         8.8           Wyoming         0         167         167         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Oklahoma       |                 |                 |            |                   |
| Pennsylvania         10,729         10,376         -353         3.4           South Carolina         4,953         5,118         165         3.3           South Dakota         160         2,527         2,368         —           Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10.7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0           West Virginia         195         385         190         97.7           Wisconsin         15,312         14,077         -1,235         8.8           Wyoming         0         167         167         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Oregon         | 19,558          | 23,292          | 3,733      | 19.1              |
| South Dakota         160         2,527         2,368         —           Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10.7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0           West Virginia         195         385         190         97.7           Wisconsin         15,312         14,077         -1,235         8.8           Wyoming         0         167         167         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                 | 10,376          | -353       | 3.4               |
| South Dakota         160         2,527         2,368         —           Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10.7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0           West Virginia         195         385         190         97.7           Wisconsin         15,312         14,077         -1,235         8.8           Wyoming         0         167         167         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | South Carolina | 4 953           | 5 118           | 165        | 3.3               |
| Tennessee         6,884         3,460         -3,424         98.9           Texas         952,244         1,207,293         255,049         26.8           Utah         6,513         6,478         -35         0.5           Vermont         276         250         -27         10.7           Virginia         71,776         23,457         -48,318         206.0           Washington         3,598         6,693         3,095         86.0           West Virginia         195         385         190         97.7           Wisconsin         15,312         14,077         -1,235         8.8           Wyoming         0         167         167         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                 |                 |            | 5.5               |
| Texas       952,244       1,207,293       255,049       26.8         Utah       6,513       6,478       -35       0.5         Vermont       276       250       -27       10.7         Virginia       71,776       23,457       -48,318       206.0         Washington       3,598       6,693       3,095       86.0         West Virginia       195       385       190       97.7         Wisconsin       15,312       14,077       -1,235       8.8         Wyoming       0       167       167       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                 |                 |            | _                 |
| Utah     6,513     6,478     -35     0.5       Vermont     276     250     -27     10.7       Virginia     71,776     23,457     -48,318     206.0       Washington     3,598     6,693     3,095     86.0       West Virginia     195     385     190     97.7       Wisconsin     15,312     14,077     -1,235     8.8       Wyoming     0     167     167     0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                 |                 |            |                   |
| Vermont                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                 |                 |            |                   |
| Virginia       71,776       23,457       -48,318       206.0         Washington       3,598       6,693       3,095       86.0         West Virginia       195       385       190       97.7         Wisconsin       15,312       14,077       -1,235       8.8         Wyoming       0       167       167       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Utah           | 6,513           | 6,478           | -35        | 0.5               |
| Virginia       71,776       23,457       -48,318       206.0         Washington       3,598       6,693       3,095       86.0         West Virginia       195       385       190       97.7         Wisconsin       15,312       14,077       -1,235       8.8         Wyoming       0       167       167       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Vermont        | 276             | 250             | -27        | 10.7              |
| Washington       3,598       6,693       3,095       86.0         West Virginia       195       385       190       97.7         Wisconsin       15,312       14,077       -1,235       8.8         Wyoming       0       167       167       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                 |                 |            |                   |
| West Virginia     195     385     190     97.7       Wisconsin     15,312     14,077     -1,235     8.8       Wyoming     0     167     167     0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                 |                 |            |                   |
| Wisconsin       15,312       14,077       -1,235       8.8         Wyoming       0       167       167       0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                 |                 |            |                   |
| Wyoming                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                 |                 |            |                   |
| Wyoming                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Wisconsin      | 15,312          | 14,077          |            | 8.8               |
| Total 2 793 489 3 113 419 319 930 11 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                 | 167             | 167        | 0                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Total          | 2,793,489       | 3,113,419       | 319,930    | 11.5              |

a Relative comparisons are expressed as the maximum difference percentage (MDP), or the absolute value of the difference between two volumes divided by the smaller of the two volumes, multiplied by 100.
 — = Not applicable.

Note: Totals may not equal sum of components due to independent rounding. Sources: Energy Information Administration (EIA), Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" and Form EIA-759, "Monthly Power Plant Report."

Table A2. Natural Gas Unaccounted for by State, 1995-1999 (Million Cubic Feet)

| State          | 1995    | 1996    | 1997    | 1998     | 1999    |
|----------------|---------|---------|---------|----------|---------|
|                |         |         |         |          |         |
| Alabama        | 9.997   | -2.954  | 15.799  | 32.788   | 3.021   |
| Alaska         | -592    | 1.032   | -1.790  | 3,923    | -1,993  |
|                |         | 1,032   |         | -40.211  | 23.178  |
| Arizona        | 2,606   |         | 2,975   |          |         |
| Arkansas       | 8,881   | 7,639   | 7,569   | 3,985    | 4,301   |
| California     | 174,506 | 277,924 | 292,339 | 61,625   | -9,344  |
| Colorado       | 8,734   | 6,652   | 9.110   | 11,664   | 15,001  |
| Connecticut    | 3.826   | 1.055   | 334     | 2.187    | 1.948   |
|                | 1,006   | 784     | 1.074   | 794      | 1.398   |
| D.C            |         |         |         |          | -1.254  |
| Delaware       | 2,065   | 438     | 5,935   | 4,808    |         |
| Florida        | 3,554   | -4      | 4,391   | 3,105    | 8,645   |
| Georgia        | 3,712   | 1,666   | -1,260  | 9,828    | -49,244 |
| Hawaii         | 21      | 88      | 6       | 61       | 17      |
| Idaho          | 8,893   | -18,969 | -61,021 | -19.015  | -11,107 |
| Illinois       | 30.648  | 10.867  | 15.349  | 14.312   | 8.777   |
|                |         |         |         |          |         |
| Indiana        | 539     | -3,307  | 11,848  | 10,081   | 6,268   |
| lowa           | 4,849   | 4,500   | 5,370   | 34,578   | 17,180  |
| Kansas         | 14,287  | 7,904   | 25,939  | 22,666   | 11,636  |
| Kentucky       | 9,808   | 9,410   | 8,345   | 409      | 2,041   |
| Louisiana      | 10,248  | 19,555  | 40.760  | 82,184   | -15,447 |
| Maine          | 292     | 241     | 231     | 78       | 570     |
|                | 0.070   | 5.500   | 40.447  | 0.500    | 0.570   |
| Maryland       | 9,879   | 5,592   | 12,147  | 6,588    | 9,570   |
| Massachusetts  | 1,091   | -5,692  | 1,359   | 4,702    | 11,798  |
| Michigan       | 4,028   | 16,836  | 42,875  | 2,685    | 32,940  |
| Minnesota      | -32,466 | 6,703   | 4,855   | 825      | 3,643   |
| Mississippi    | 21,441  | 13,047  | 18,066  | -122,470 | 18,000  |
| Missouri       | 13,981  | 1,596   | 5,779   | 7,267    | 9,669   |
| Montana        | -5,345  | -6,233  | -6,635  | 2,146    | -1,613  |
|                |         |         |         |          |         |
| Nebraska       | 2,403   | 4,354   | 1,531   | 1,630    | -281    |
| Nevada         | 533     | 1,479   | 2,795   | 623      | -1,947  |
| New Hampshire  | 453     | 466     | 1,046   | 149      | 540     |
| New Jersey     | 1.790   | -741    | 3.500   | -16.615  | -22.294 |
| New Mexico     | 9.924   | 6.859   | 2.010   | -2.065   | -13,432 |
| New York       | 18,129  | 940     | 126,641 | 115,611  | 42,660  |
| North Carolina | 7,640   | 1,300   | 8,125   | -274     | 27,932  |
| North Dakota   | -66     | 1,259   | 1,041   | 7,590    | -137    |
|                |         | .,200   | .,      | .,000    |         |
| Ohio           | 31,518  | 16,344  | -67,821 | 6,586    | 32,614  |
| Oklahoma       | 13,742  | 302     | -32,983 | 29,312   | -14,856 |
| Oregon         | 5,406   | 1,560   | 1,603   | 3,116    | 390     |
| Pennsylvania   | 18,220  | -4,426  | 12,631  | 6,187    | -7,268  |
| Rhode Island   | 2,362   | -646    | -2,652  | -3,400   | -2,901  |
| South Carolina | 2,315   | 846     | 2.807   | 138      | 1,049   |
|                |         |         |         |          |         |
| South Dakota   | 1,107   | 994     | 500     | 1,227    | -339    |
| Tennessee      | 8,123   | 11,613  | 8,426   | 1,630    | 6,955   |
| Texas          | -6,590  | 51,729  | 10,262  | -73,153  | 40,909  |
| Utah           | 5,669   | 15,207  | 35,469  | 3,895    | 7,090   |
| Vermont        | 802     | 1,817   | 4,690   | 777      | -915    |
| Virginia       | 8.328   | 4.810   | 7.057   | 5.521    | 7.789   |
|                | 66,580  | 68.447  | 59.159  | 1,772    | -1.662  |
| Washington     |         |         |         |          |         |
| West Virginia  | 8,561   | 5,044   | 64,475  | 11,554   | 6,709   |
| Wisconsin      | 5,402   | -2,756  | 7,001   | 7,791    | 4,770   |
| Wyoming        | -1,784  | 3,911   | 5,349   | 7,961    | 5,498   |
|                |         |         |         |          |         |

Source: Energy Information Administration (EIA), Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."